

Purpose

Under the Newborn Hearing Screening law, RSMo 191.931, the Missouri Department of Elementary and Secondary Education shall “monitor the delivery of early intervention services to those infants identified by the newborn hearing screening program and report annually to the department of health and senior services.” Eligible infants are served by the Missouri First Steps Program under Part C of the Individuals with Disabilities Education Act (IDEA).

This report provides information related to the number of First Steps infants born in 2019 and identified with permanent hearing loss through the newborn hearing screening program.

Infants Enrolled in the First Steps Program

As of October 7, 2020, 91 infants born in 2019 were identified with hearing loss by the Department of Health and Senior Services (DHSS). It is important to note that the 91 infants included infants who received incomplete results or unknown types of loss based on what was reported to DHSS. Infants who were determined to be suffering from middle ear pathology (e.g., fluid in the middle ear from colds, ear infections) and who do not have a permanent hearing loss could be removed from the list at a later date based on updates received from audiologists.

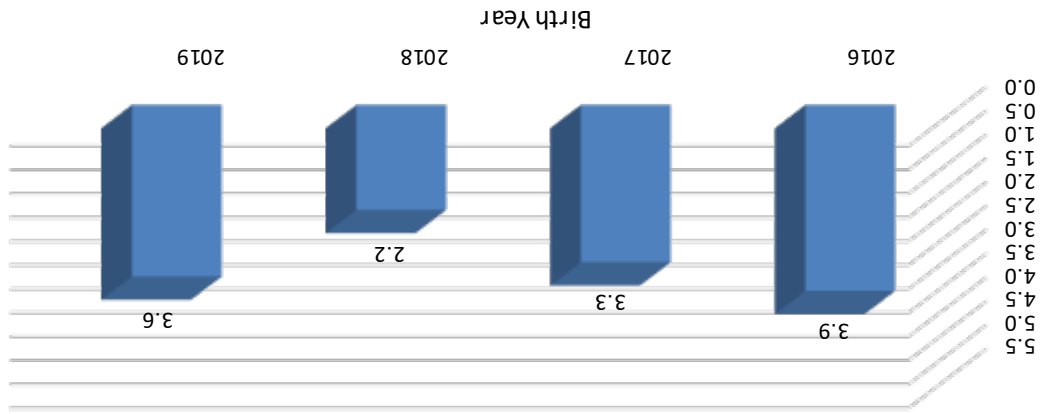
Of the 91 infants identified by DHSS, 75 (82.4%) were referred to the First Steps program. Of the 75 infants referred to First Steps, 64 (85.3%) were found eligible and had an Individualized Family Service Plan (IFSP). The remaining 11 infants did not reach IFSP status due to the following reasons: five children were withdrawn by a parent or guardian, four children were unable to be located, one child moved out of State, and one child was deceased before reaching IFSP.

Of the 64 infants who had an IFSP, 59 (92.2%) were in active status as of September 21, 2020, two children were deceased, two children had been withdrawn by a parent or guardian, and one child was unable to be contacted/located.

Average Age at Referral

Table 1 represents the average age in months of infants at the time of referral to First Steps for the 75 children referred. The average age at referral for infants born in 2019 was 3.6 months. The average age at the time of initial IFSP for the 64 infants who reached IFSP was 5.6 months.

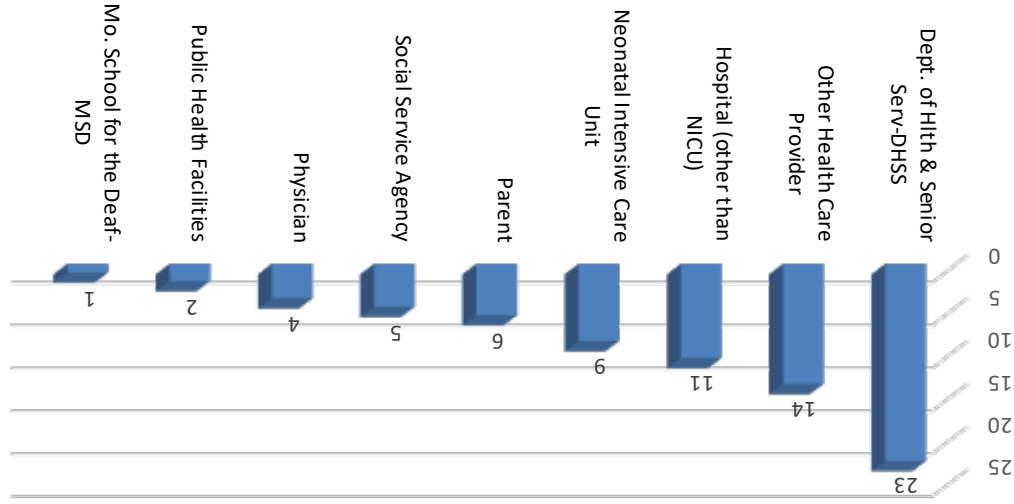
Table 1. Average Age in Months at Referral



Referral Sources

Table 2 represents the sources of initial referrals to First Steps for infants with hearing loss identified by DHSS. Of the 75 infants referred to First Steps, most initial referrals were made by Department of Health and Senior Services (DHSS) with 23 (30.7%), Other Health Care Provider with 14 (18.7%) and Hospital (other than NICU) with 11 (14.7%).

Table 2. First Steps Referral Sources



Eligibility Categories

Table 3 provides the primary First Steps eligibility category for the 64 infants determined eligible for services and reached IFSP. There were 50 children (78.1%) found eligible due to a diagnosed condition.

Table 3. Reasons for Eligibility

Reason for Eligibility	Number of Infants	% Eligibility
Diagnosed Condition	50	78.1%
Newborn Condition	3	4.7%
Developmental Delay – Half age delay	10	15.6%
Other Condition	1	1.6%
Total	64	100.0%

Type of Hearing Loss

Table 4 represents the type of hearing loss and related First Steps referral and eligibility percentages for the 91 infants identified by DHSS. Of the 91 infants, 56 (61.5%) had a sensorineural hearing loss. Of the 56 infants with sensorineural hearing loss, 45 (80.5%) were referred to First Steps and, of those referred, 35 (77.8%) reached IFSP.

Table 4. Type of Hearing Loss and First Steps Status

Type of Loss	Number of Infants	Referred to First Steps	Reached IFSP	% Reached IFSP
Sensorineural	56	45	35	77.8%
Auditory Neuropathy	7	7	7	100.0%
Mixed	6	6	6	100.0%
Permanent Conductive	8	7	6	85.7%
Conductive	0	0	0	0.0%
Incomplete Testing and/or Unknown Type	14	10	10	100.0%
Total	91	75	64	85.3%

Service Authorizations

Table 5 represents the First Steps service authorizations for the 59 infants identified by DHSS who were in active IFSP status as of September 21, 2020. There were 308 active authorizations for the 59 infants with hearing loss. The top three categories of First Steps service authorizations were:

- 1) 107 (34.7%) authorizations for Special Instruction;
- 2) 93 (30.2%) authorizations for Audiology; and
- 3) 46 (14.9%) authorizations for Speech Language Pathology.

Table 5. First Steps Authorizations

	ABR: Audiology evoked potential	AT Service	Consultation/ Facilitation with Others	Direct Child Service	Evaluation/ Assessment	Family Education/ Training/Support	OAE limited: Evoked otoacoustic	Tympanometry (impedance testing)	Visual Reinforcement Audiometer	Grand Total	Percentage
Audiology	8	17		13	20		21	7	7	93	30.2%
Occupational Therapy			9	14						23	7.5%
Physical Therapy			4	35						39	12.7%
Special Instruction		1	10	68	27	1				107	34.7%
Speech Language Pathology			8	35		3				46	14.9%
Grand Total	8	18	31	165	47	4	21	7	7	308	100.0%

* ABR – Auditory Brainstem Response

* AT – Assistive Technology

* OAE – Otoacoustic Emissions

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